

WHAT IS CLAIMED IS:

1. Positive electrode material, wherein:
plural primary particles are flocculated and a secondary particle is formed; and
length in which the primary particles are linked on the section of the secondary particle is equivalent to 10 to 70% of the length of the whole periphery on the section of the primary particles.
2. Positive electrode material, wherein:
plural primary particles are flocculated and a secondary particle is formed; and
the crystal orientations of c axes of 60% or more of the primary particles in the secondary particle are within 20 degrees.
3. Positive electrode material, wherein:
plural primary particles are flocculated and a secondary particle is formed; and
the voidage of the secondary particle is 2.5 to 35%.
4. Positive electrode material according to any of Claims 1 to 3, wherein:
the secondary particle is composed of crystals having layer structure including Li, Ni, Mn and Co.
5. Positive electrode material according to any of Claims 1 to 4, wherein:
the secondary particle is represented as $\text{Li}_a\text{Mn}_x\text{Ni}_y\text{Co}_z\text{O}_2$; and
the secondary particle is composed of crystals having layer structure of composite oxide meeting $1 \leq a \leq 1.2$, $0 \leq x \leq 0.65$, $0.35 \leq y < 0.5$, $0 \leq z \leq 0.65$ and $x+y+z=1$.
6. Positive electrode material according to any of Claims 1 to 5, wherein:
the mean diameter of the primary particle is 0.2 to 10 μm .

7. A method of manufacturing positive electrode material, wherein:

material powder including Li, Ni, Mn and Co is ground after it is burned at 950 to 1100°C.

8. A method of manufacturing positive electrode material according to Claim 7, wherein:

the material powder includes lithium carbonate, nickel oxide, manganese dioxide and cobalt oxide.

9. A method of manufacturing positive electrode material according to Claim 7 or 8, wherein:

the material powder is burned after it is granulated and dried by a spray dryer.

10. A lithium secondary battery, comprising:

a positive electrode made of the positive electrode material according to Claims 1 to 6;

a negative electrode; and

a non-aqueous electrolyte.